INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/36649

A. CLAS	SIFICATION OF SUBJECT MATTER		
IPC(7) : G02C 7/04			
in actual COD			
US CL: 351/160R According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 351/160R,159,160H,163,165,166,172,174,177,178			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
EAST			
C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No.			
Category *	Citation of document with indication, where ap	propriate, of the relevant passages	1-2, 8-9, 13, 19-20
X	US 6,325,509 (HODUR et al) 04 December 2001 (04	1.12.2001), column 2, line 55-Column	
 Y	9, line 5.		3-7, 10-12, 14-18, 21- 22
Y	GB 1,417,650 (SOHNGES) 10 December 1975 (10.12.1975), column 1, line 1-column 3, line 73.		3-7, 15-18
Y	Y US 6,241,355 B1 (BARSKY) 05 June 2001 (05.06.2001), column 5, line 38-column 17, line		10-12, 14, 21-22
A US 6,412,946 B1 (VIJFVINKEL et al) 02 July 2002 (02.07.2002), column 2, line 48- column 5, line 8.		1-22	
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Furthe	r documents are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents: "T"		date and not in conflict with the applic	ation but cited to understand the
"A" document defining the general state of the art which is not considered to be of particular relevance		principle or theory underlying the inve	ention elaimed invention cannot be
"E" earlier application or patent published on or after the international filing date		considered novel or cannot be conside when the document is taken alone	red to involve an inventive step
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
"O" document referring to an oral disclosure, use, exhibition or other means being obvious to a person skilled in the art			e art
"P" document published prior to the international filing date but later than the		"&" document member of the same patent family	
Date of the actual completion of the		Date of mailing of the international search report 10 JUN 2005	
21 March 20	05 (21.03.2005)	Authorized officer	
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